# About the security content of macOS Sonoma 14.7.5

This document describes the security content of macOS Sonoma 14.7.5.

# About Apple security updates

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# macOS Sonoma 14.7.5

Released March 31, 2025

## AccountPolicy

Available for: macOS Sonoma

Impact: A malicious app may be able to gain root privileges

Description: This issue was addressed by removing the vulnerable code.

CVE-2025-24234: an anonymous researcher

## AirDrop

Available for: macOS Sonoma Impact: An app may be able to read arbitrary file metadata Description: A permissions issue was addressed with additional restrictions. CVE-2025-24097: Ron Masas of <u>BREAKPOINT.SH</u>

## AirPlay

Available for: macOS Sonoma

Impact: An attacker on the local network may be able to cause a denial-of-service

Description: A null pointer dereference was addressed with improved input validation.

CVE-2025-24177: Uri Katz (Oligo Security)

CVE-2025-24179: Uri Katz (Oligo Security)

Entry added April 28, 2025

## AirPlay

Impact: An attacker on the local network may cause an unexpected app termination

Description: The issue was addressed with improved checks.

CVE-2025-24251: Uri Katz (Oligo Security)

CVE-2025-31197: Uri Katz (Oligo Security)

Entry added April 28, 2025

#### AirPlay

Available for: macOS Sonoma

Impact: An attacker on the local network may be able to bypass authentication policy

Description: An authentication issue was addressed with improved state management.

CVE-2025-24206: Uri Katz (Oligo Security)

Entry added April 28, 2025

#### AirPlay

Available for: macOS Sonoma

Impact: An attacker on the local network may be able to corrupt process memory

Description: An input validation issue was addressed.

CVE-2025-24126: Uri Katz (Oligo Security)

Entry added April 28, 2025

#### AirPlay

Available for: macOS Sonoma

Impact: An unauthenticated user on the same network as a signed-in Mac could send it AirPlay commands without pairing

Description: An access issue was addressed with improved access restrictions.

CVE-2025-24271: Uri Katz (Oligo Security)

Entry added April 28, 2025

#### AirPlay

Available for: macOS Sonoma

Impact: An attacker on the local network may be able to leak sensitive user information

Description: This issue was addressed by removing the vulnerable code.

CVE-2025-24270: Uri Katz (Oligo Security)

Entry added April 28, 2025

#### AirPlay

Available for: macOS Sonoma

Impact: An attacker on the local network may be able to cause a denial-of-service

Description: The issue was addressed with improved memory handling.

CVE-2025-24131: Uri Katz (Oligo Security)

Entry added April 28, 2025

#### AirPlay

Available for: macOS Sonoma

Impact: An attacker on the local network may cause an unexpected app termination

Description: A type confusion issue was addressed with improved checks.

CVE-2025-24129: Uri Katz (Oligo Security)

CVE-2025-30445: Uri Katz (Oligo Security)

Entry added April 28, 2025

## AirPlay

Available for: macOS Sonoma

Impact: An attacker on the local network may be able to corrupt process memory

Description: A use-after-free issue was addressed with improved memory management.

CVE-2025-24252: Uri Katz (Oligo Security)

Entry added April 28, 2025

## App Store

Available for: macOS Sonoma

Impact: A malicious app may be able to access private information

Description: This issue was addressed by removing the vulnerable code.

CVE-2025-24276: an anonymous researcher

## **Apple Account**

Available for: macOS Sonoma

Impact: An attacker in a privileged network position may be able to track a user's activity

Description: The issue was addressed with improved handling of protocols.

CVE-2024-40864: Wojciech Regula of SecuRing (wojciechregula.blog)

Entry updated April 2, 2025

## **AppleMobileFileIntegrity**

Available for: macOS Sonoma

Impact: An app may be able to modify protected parts of the file system

Description: The issue was addressed with improved checks.

CVE-2025-24272: Mickey Jin (@patch1t)

CVE-2025-24231: Claudio Bozzato and Francesco Benvenuto of Cisco Talos

## AppleMobileFileIntegrity

Available for: macOS Sonoma Impact: A malicious app may be able to read or write to protected files Description: A permissions issue was addressed with additional restrictions. CVE-2025-24233: Claudio Bozzato and Francesco Benvenuto of Cisco Talos.

## **AppleMobileFileIntegrity**

Available for: macOS Sonoma Impact: An app may be able to access user-sensitive data Description: A privacy issue was addressed by removing the vulnerable code. CVE-2025-30443: Bohdan Stasiuk (@bohdan\_stasiuk)

#### Audio

Available for: macOS Sonoma

Impact: Processing a maliciously crafted file may lead to arbitrary code execution

Description: The issue was addressed with improved memory handling.

CVE-2025-24243: Hossein Lotfi (@hosselot) of Trend Micro Zero Day Initiative

#### Audio

Available for: macOS Sonoma

Impact: Processing a maliciously crafted font may result in the disclosure of process memory

Description: The issue was addressed with improved memory handling.

CVE-2025-24244: Hossein Lotfi (@hosselot) of Trend Micro Zero Day Initiative

#### Automator

Available for: macOS Sonoma

Impact: An app may be able to access protected user data

Description: A permissions issue was addressed by removing vulnerable code and adding additional checks.

CVE-2025-30460: an anonymous researcher

#### **BiometricKit**

Available for: macOS Sonoma

Impact: An app may be able to cause unexpected system termination

Description: A buffer overflow was addressed with improved bounds checking.

CVE-2025-24237: Yutong Xiu

## Calendar

Available for: macOS Sonoma

Impact: An app may be able to break out of its sandbox

Description: A path handling issue was addressed with improved validation.

CVE-2025-30429: Denis Tokarev (@illusionofcha0s)

#### Calendar

Available for: macOS Sonoma Impact: An app may be able to break out of its sandbox Description: This issue was addressed with improved checks. CVE-2025-24212: Denis Tokarev (@illusionofcha0s)

#### CloudKit

Available for: macOS Sonoma Impact: A malicious app may be able to access private information Description: The issue was addressed with improved checks. CVE-2025-24215: Kirin (@Pwnrin)

#### CoreAudio

Available for: macOS Sonoma

Impact: Playing a malicious audio file may lead to an unexpected app termination

Description: An out-of-bounds read issue was addressed with improved input validation.

CVE-2025-24230: Hossein Lotfi (@hosselot) of Trend Micro Zero Day Initiative

#### CoreMedia

Available for: macOS Sonoma

Impact: A malicious application may be able to elevate privileges. Apple is aware of a report that this issue may have been actively exploited against versions of iOS before iOS 17.2.

Description: A use after free issue was addressed with improved memory management.

CVE-2025-24085

#### CoreMedia

Available for: macOS Sonoma

Impact: An app may be able to access sensitive user data

Description: An access issue was addressed with additional sandbox restrictions.

CVE-2025-24236: Csaba Fitzl (@theevilbit) and Nolan Astrein of Kandji

#### CoreMedia

Impact: Processing a maliciously crafted video file may lead to unexpected app termination or corrupt process memory

Description: The issue was addressed with improved memory handling.

CVE-2025-24190: Hossein Lotfi (@hosselot) of Trend Micro Zero Day Initiative

#### CoreMedia

Available for: macOS Sonoma

Impact: Processing a maliciously crafted video file may lead to unexpected app termination or corrupt process memory

Description: This issue was addressed with improved memory handling.

CVE-2025-24211: Hossein Lotfi (@hosselot) of Trend Micro Zero Day Initiative

## **CoreMedia Playback**

Available for: macOS Sonoma

Impact: A malicious app may be able to access private information

Description: A path handling issue was addressed with improved validation.

CVE-2025-30454: pattern-f (@pattern\_F\_)

#### CoreServices

Available for: macOS Sonoma

Impact: An app may be able to access sensitive user data

Description: This issue was addressed through improved state management.

CVE-2025-31191: Jonathan Bar Or (@yo\_yo\_yo\_jbo) of Microsoft, and an anonymous researcher

## CoreServices

Available for: macOS Sonoma

Impact: An app may be able to gain root privileges

Description: A logic issue was addressed with improved file handling.

CVE-2025-24170: YingQi Shi (@Mas0nShi) of DBAppSecurity's WeBin lab and Minghao Lin (@Y1nKoc), Stephan Casas

## CoreUtils

Available for: macOS Sonoma

Impact: An attacker on the local network may be able to cause a denial-of-service

Description: An integer overflow was addressed with improved input validation.

CVE-2025-31203: Uri Katz (Oligo Security)

Entry added April 28, 2025

## **Crash Reporter**

Available for: macOS Sonoma

Impact: An app may be able to gain root privileges

Description: A parsing issue in the handling of directory paths was addressed with improved path validation.

CVE-2025-24277: Csaba Fitzl (@theevilbit) of Kandji and Gergely Kalman (@gergely\_kalman), and an anonymous researcher

#### curl

Available for: macOS Sonoma

Impact: An input validation issue was addressed

Description: This is a vulnerability in open source code and Apple Software is among the affected projects. The CVE-ID was assigned by a third party. Learn more about the issue and CVE-ID at <u>cve.org</u>.

CVE-2024-9681

#### **Disk Images**

Available for: macOS Sonoma

Impact: An app may be able to break out of its sandbox

Description: A file access issue was addressed with improved input validation.

CVE-2025-24255: an anonymous researcher

## **DiskArbitration**

Available for: macOS Sonoma

Impact: An app may be able to gain root privileges

Description: A permissions issue was addressed with additional restrictions.

CVE-2025-24267: an anonymous researcher

## **DiskArbitration**

Available for: macOS Sonoma

Impact: An app may be able to gain root privileges

Description: A parsing issue in the handling of directory paths was addressed with improved path validation.

CVE-2025-30456: Gergely Kalman (@gergely\_kalman)

#### Dock

Available for: macOS Sonoma

Impact: A malicious app may be able to access private information

Description: The issue was addressed with improved checks.

CVE-2025-30455: Mickey Jin (@patch1t), and an anonymous researcher

#### Dock

Available for: macOS Sonoma

Impact: An app may be able to modify protected parts of the file system

Description: This issue was addressed by removing the vulnerable code.

CVE-2025-31187: Rodolphe BRUNETTI (@eisw0lf) of Lupus Nova

## dyld

Available for: macOS Sonoma

Impact: Apps that appear to use App Sandbox may be able to launch without restrictions

Description: A library injection issue was addressed with additional restrictions.

CVE-2025-30462: Pietro Francesco Tirenna, Davide Silvetti, Abdel Adim Oisfi of Shielder (<u>shielder.com</u>)

## Foundation

Available for: macOS Sonoma

Impact: An app may be able to cause a denial-of-service

Description: An uncontrolled format string issue was addressed with improved input validation.

CVE-2025-24199: Manuel Fernandez (Stackhopper Security)

## Foundation

Available for: macOS Sonoma

Impact: An app may be able to access sensitive user data

Description: The issue was resolved by sanitizing logging

CVE-2025-30447: LFY@secsys from Fudan University

## **GPU Drivers**

Available for: macOS Sonoma

Impact: An app may be able to disclose kernel memory

Description: The issue was addressed with improved bounds checks.

CVE-2025-24256: Murray Mike, Anonymous working with Trend Micro Zero Day Initiative

## **GPU Drivers**

Impact: An app may be able to cause unexpected system termination or corrupt kernel memory

Description: An out-of-bounds write issue was addressed with improved bounds checking.

CVE-2025-24273: Wang Yu of Cyberserval

CVE-2025-30464: ABC Research s.r.o.

### ImagelO

Available for: macOS Sonoma

Impact: Parsing an image may lead to disclosure of user information

Description: A logic error was addressed with improved error handling.

CVE-2025-24210: Anonymous working with Trend Micro Zero Day Initiative

#### Installer

Available for: macOS Sonoma

Impact: An app may be able to check the existence of an arbitrary path on the file system

Description: A permissions issue was addressed with additional sandbox restrictions.

CVE-2025-24249: YingQi Shi(@Mas0nShi) of DBAppSecurity's WeBin lab and Minghao Lin (@Y1nKoc)

#### Installer

Available for: macOS Sonoma

Impact: A sandboxed app may be able to access sensitive user data

Description: A logic issue was addressed with improved checks.

CVE-2025-24229: an anonymous researcher

## **Kerberos Helper**

Available for: macOS Sonoma

Impact: A remote attacker may be able to cause unexpected app termination or heap corruption

Description: A memory initialization issue was addressed with improved memory handling.

CVE-2025-24235: Dave G.

## Kernel

Available for: macOS Sonoma

Impact: A malicious app may be able to attempt passcode entries on a locked device and thereby cause escalating time delays after 4 failures

Description: A logic issue was addressed with improved state management.

CVE-2025-30432: Michael (Biscuit) Thomas - @biscuit@social.lol

#### Kernel

Available for: macOS Sonoma Impact: An app may be able to modify protected parts of the file system Description: The issue was addressed with improved checks. CVE-2025-24203: Ian Beer of Google Project Zero

#### Kernel

Available for: macOS Sonoma

Impact: An attacker with user privileges may be able to read kernel memory

Description: A type confusion issue was addressed with improved memory handling.

CVE-2025-24196: Joseph Ravichandran (@0xjprx) of MIT CSAIL

#### LaunchServices

Available for: macOS Sonoma

Impact: A malicious JAR file may bypass Gatekeeper checks

Description: This issue was addressed with improved handling of executable types.

CVE-2025-24148: Kenneth Chew

#### Libinfo

Available for: macOS Sonoma

Impact: A user may be able to elevate privileges

Description: An integer overflow was addressed with improved input validation.

CVE-2025-24195: Paweł Płatek (Trail of Bits)

#### libxml2

Available for: macOS Sonoma

Impact: Parsing a file may lead to an unexpected app termination

Description: This is a vulnerability in open source code and Apple Software is among the affected projects. The CVE-ID was assigned by a third party. Learn more about the issue and CVE-ID at <u>cve.org</u>.

CVE-2025-27113 CVE-2024-56171

#### libxpc

Impact: An app may be able to break out of its sandbox Description: This issue was addressed through improved state management. CVE-2025-24178: an anonymous researcher

#### libxpc

Available for: macOS Sonoma

Impact: An app may be able to delete files for which it does not have permission

Description: This issue was addressed with improved handling of symlinks.

CVE-2025-31182: 风沐云烟(@binary\_fmyy) and Minghao Lin(@Y1nKoc), Alex Radocea and Dave G. of Supernetworks

#### libxpc

Available for: macOS Sonoma Impact: An app may be able to gain elevated privileges Description: A logic issue was addressed with improved checks. CVE-2025-24238: an anonymous researcher

#### Mail

Available for: macOS Sonoma Impact: "Block All Remote Content" may not apply for all mail previews Description: A permissions issue was addressed with additional sandbox restrictions. CVE-2025-24172: an anonymous researcher

#### manpages

Available for: macOS Sonoma Impact: An app may be able to access sensitive user data Description: This issue was addressed with improved validation of symlinks. CVE-2025-30450: Pwn2car

#### Maps

Available for: macOS Sonoma Impact: An app may be able to read sensitive location information Description: A path handling issue was addressed with improved logic. CVE-2025-30470: LFY@secsys from Fudan University

#### NSDocument

Impact: A malicious app may be able to access arbitrary files Description: This issue was addressed through improved state management. CVE-2025-24232: an anonymous researcher

## OpenSSH

Available for: macOS Sonoma Impact: An app may be able to access user-sensitive data Description: An injection issue was addressed with improved validation. CVE-2025-24246: Mickey Jin (@patch1t)

## PackageKit

Available for: macOS Sonoma Impact: An app may be able to modify protected parts of the file system Description: The issue was addressed with improved checks. CVE-2025-24261: Mickey Jin (@patch1t)

## PackageKit

Available for: macOS Sonoma Impact: An app may be able to modify protected parts of the file system Description: A logic issue was addressed with improved checks. CVE-2025-24164: Mickey Jin (@patch1t)

## PackageKit

Available for: macOS Sonoma

Impact: A malicious app with root privileges may be able to modify the contents of system files

Description: A permissions issue was addressed with additional restrictions.

CVE-2025-30446: Pedro Tôrres (@t0rr3sp3dr0)

## **Parental Controls**

Available for: macOS Sonoma

Impact: An app may be able to retrieve Safari bookmarks without an entitlement check

Description: This issue was addressed with additional entitlement checks.

CVE-2025-24259: Noah Gregory (wts.dev)

## **Photos Storage**

Impact: Deleting a conversation in Messages may expose user contact information in system logging

Description: A logging issue was addressed with improved data redaction.

CVE-2025-30424: an anonymous researcher

#### **Power Services**

Available for: macOS Sonoma Impact: An app may be able to break out of its sandbox Description: This issue was addressed with additional entitlement checks. CVE-2025-24173: Mickey Jin (@patch1t)

#### Sandbox

Available for: macOS Sonoma Impact: An input validation issue was addressed Description: The issue was addressed with improved checks. CVE-2025-30452: an anonymous researcher

#### Sandbox

Available for: macOS Sonoma Impact: An app may be able to access protected user data Description: A permissions issue was addressed with additional restrictions. CVE-2025-24181: Arsenii Kostromin (0x3c3e)

#### Security

Available for: macOS Sonoma

Impact: A remote user may be able to cause a denial-of-service

Description: A validation issue was addressed with improved logic.

CVE-2025-30471: Bing Shi, Wenchao Li, Xiaolong Bai of Alibaba Group, Luyi Xing of Indiana University Bloomington

#### Security

Available for: macOS Sonoma Impact: A malicious app acting as a HTTPS proxy could get access to sensitive user data Description: This issue was addressed with improved access restrictions. CVE-2025-24250: Wojciech Regula of SecuRing (<u>wojciechregula.blog</u>)

#### **Share Sheet**

Available for: macOS Sonoma

Impact: A malicious app may be able to dismiss the system notification on the Lock Screen that a recording was started

Description: This issue was addressed with improved access restrictions.

CVE-2025-30438: Halle Winkler, Politepix theoffcuts.org

#### Shortcuts

Available for: macOS Sonoma

Impact: An app may be able to access user-sensitive data

Description: An access issue was addressed with additional sandbox restrictions.

CVE-2025-24280: Kirin (@Pwnrin)

#### Shortcuts

Available for: macOS Sonoma

Impact: A Shortcut may run with admin privileges without authentication

Description: An authentication issue was addressed with improved state management.

CVE-2025-31194: Dolf Hoegaerts

#### Shortcuts

Available for: macOS Sonoma

Impact: A shortcut may be able to access files that are normally inaccessible to the Shortcuts app

Description: A permissions issue was addressed with improved validation.

CVE-2025-30465: an anonymous researcher

#### Shortcuts

Available for: macOS Sonoma

Impact: A shortcut may be able to access files that are normally inaccessible to the Shortcuts app

Description: This issue was addressed with improved access restrictions.

CVE-2025-30433: Andrew James Gonzalez

#### Siri

Available for: macOS Sonoma

Impact: An attacker with physical access may be able to use Siri to access sensitive user data

Description: This issue was addressed by restricting options offered on a locked device.

CVE-2025-24198: Richard Hyunho Im (@richeeta) with routezero.security

#### Siri

Available for: macOS Sonoma

Impact: An app may be able to access sensitive user data

Description: The issue was addressed with improved restriction of data container access.

CVE-2025-31183: Kirin (@Pwnrin), Bohdan Stasiuk (@bohdan\_stasiuk)

#### Siri

Available for: macOS Sonoma

Impact: An app may be able to access user-sensitive data

Description: An authorization issue was addressed with improved state management.

CVE-2025-24205: YingQi Shi(@Mas0nShi) of DBAppSecurity's WeBin lab and Minghao Lin (@Y1nKoc)

#### SMB

Available for: macOS Sonoma

Impact: Mounting a maliciously crafted SMB network share may lead to system termination

Description: A race condition was addressed with improved locking.

CVE-2025-30444: Dave G.

#### SMB

Available for: macOS Sonoma

Impact: An app may be able to execute arbitrary code with kernel privileges

Description: A buffer overflow issue was addressed with improved memory handling.

CVE-2025-24228: Joseph Ravichandran (@0xjprx) of MIT CSAIL

#### smbx

Available for: macOS Sonoma

Impact: An attacker in a privileged position may be able to perform a denial-of-service

Description: The issue was addressed with improved memory handling.

CVE-2025-24260: zbleet of QI-ANXIN TianGong Team

#### Software Update

Available for: macOS Sonoma

Impact: A user may be able to elevate privileges

Description: This issue was addressed with improved validation of symlinks.

CVE-2025-24254: Arsenii Kostromin (0x3c3e)

#### Spotlight

Available for: macOS Sonoma Impact: An app may be able to access sensitive user data Description: A permissions issue was addressed with additional sandbox restrictions. CVE-2024-54533: Csaba Fitzl (@theevilbit) of OffSec

## **Storage Management**

Available for: macOS Sonoma

Impact: An app may be able to enable iCloud storage features without user consent

Description: A permissions issue was addressed with additional restrictions.

CVE-2025-24207: 风沐云烟 (binary\_fmyy) and Minghao Lin (@Y1nKoc), YingQi Shi (@Mas0nShi) of DBAppSecurity's WeBin lab

## StorageKit

Available for: macOS Sonoma Impact: An app may be able to gain root privileges Description: A permissions issue was addressed with additional restrictions. CVE-2025-30449: an anonymous researcher, Arsenii Kostromin (0x3c3e)

## StorageKit

Available for: macOS Sonoma Impact: An app may be able to access protected user data Description: This issue was addressed with improved handling of symlinks. CVE-2025-24253: Mickey Jin (@patch1t), Csaba Fitzl (@theevilbit) of Kandji

## StorageKit

Available for: macOS Sonoma Impact: An app may be able to bypass Privacy preferences Description: A race condition was addressed with additional validation. CVE-2025-31188: Mickey Jin (@patch1t)

## StorageKit

Available for: macOS Sonoma Impact: An app may be able to access user-sensitive data Description: A race condition was addressed with additional validation. CVE-2025-24240: Mickey Jin (@patch1t)

#### System Settings

Available for: macOS Sonoma Impact: An app may be able to access protected user data Description: This issue was addressed with improved validation of symlinks. CVE-2025-24278: Zhongquan Li (@Guluisacat)

## **SystemMigration**

Available for: macOS Sonoma Impact: A malicious app may be able to create symlinks to protected regions of the disk Description: This issue was addressed with improved validation of symlinks. CVE-2025-30457: Mickey Jin (@patch1t)

## **Voice Control**

Available for: macOS Sonoma Impact: An app may be able to access contacts Description: This issue was addressed with improved file handling. CVE-2025-24279: Mickey Jin (@patch1t)

## WindowServer

Available for: macOS Sonoma Impact: An attacker may be able to cause unexpected app termination Description: A type confusion issue was addressed with improved checks. CVE-2025-24247: PixiePoint Security

## WindowServer

Available for: macOS Sonoma Impact: An app may be able to trick a user into copying sensitive data to the pasteboard Description: A configuration issue was addressed with additional restrictions. CVE-2025-24241: Andreas Hegenberg (folivora.AI GmbH)

#### Xsan

Available for: macOS Sonoma Impact: An app may be able to cause unexpected system termination Description: A buffer overflow was addressed with improved bounds checking. CVE-2025-24266: an anonymous researcher

#### Xsan

Available for: macOS Sonoma

Impact: An app may be able to cause unexpected system termination

Description: An out-of-bounds read was addressed with improved bounds checking.

CVE-2025-24265: an anonymous researcher

#### Xsan

Available for: macOS Sonoma

Impact: An app may be able to cause unexpected system termination or corrupt kernel memory

Description: A buffer overflow issue was addressed with improved memory handling.

CVE-2025-24157: an anonymous researcher

## Additional recognition

#### AirPlay

We would like to acknowledge Uri Katz (Oligo Security) for their assistance.

Entry added April 28, 2025

#### Audio

We would like to acknowledge Hossein Lotfi (@hosselot) of Trend Micro Zero Day Initiative for their assistance.

#### Security

We would like to acknowledge Kevin Jones (GitHub) for their assistance.

#### Shortcuts

We would like to acknowledge Chi Yuan Chang of ZUSO ART and taikosoup for their assistance.

#### **SMB**

We would like to acknowledge Dave G. for their assistance.

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Helpful?	Yes	No
Helpful?	Yes	

Support About the security content of macOS Sonoma 14.7.5